

# TEK3 TekMonitor

## 70004 Data Sheet

The TEK 3 is the third generation of TekMonitor series of networked A/V controllers, adding greater flexibility by allowing control of additional peripheral devices and communication with other TEKVOX controllers and software applications. TekMonitors are designed as monitored, distributed control systems, with device drivers and asset management. Energy savings are further improved by its interface for 12 or 24V occupancy sensors, which simplify room automation. The added TekBus RS-232/485 serial interface provides communication and power to a touchscreen or external sensor/communication module.

TekMonitors are easily configured using TekWizard, a component of the TekManager software suite, and the TekEzLink protocol allows simple no-polling serial communication with TekMonitors or 3rd-party control systems.

### Features:

- Anti-theft protection for connected displays with TekSecurity
- Occupancy-based room automation using 12 or 24V sensors
- 3 RS-232 ports, flexible digital I/O, and IP communication with up to 8 devices
- Scheduled usage reports, event scheduling, and lamp, filter & maintenance timers
- Supports isolated PoE (IEEE 802.3af-compliant) and DHCP IP configuration
- Up to 50 macro definitions with programmable logic for advanced, intuitive operation
- Device management & seamless integration w/ TekEnterprise™ Management System



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## 70004 Technical Specifications

<b>Ethernet Interface</b>	RJ45 Female
<b>Data Rate</b>	10/100Base-T, half/full duplex w/ auto-sensing
<b>Network Protocols Supported</b>	DHCP, ICMP (ping), TCP/IP, UDP, Telnet, SMTP
<b>TekSecurity Interface (COM 1)</b>	RJ12 Female modular connector
<b>Serial Control</b>	RS232 serial TX & RX
<b>Security Input</b>	ESD-protected input w/ internal 10kΩ pull-up resistors
<b>LED Output</b>	Open-collector Darlington w/ 300mA @ 24V
<b>Pull-up</b>	2.7kΩ 1/4W resistors connected to 24V (9mA)
<b>COM Interface (COM 2)</b>	3-position Phoenix Connector
<b>Serial Control</b>	RS232 serial TX & RX w/ earth ground interface
<b>TekBus Interface (COM 3)</b>	4-position Phoenix Connector
<b>Serial Control</b>	RS485 or RS232 serial TX & RX w/ earth ground interface
<b>Power Output</b>	Selectable 12 or 24V DC output, 350mA max output
<b>Occupancy Sensor Interface</b>	3-position Phoenix Connector
<b>Input</b>	ESD-protected w/ internal 10kΩ programmable pull-up/down resistor
<b>Power Output</b>	Selectable 12 or 24V DC output, 350mA max output
<b>Flexible I/O 1 &amp; 2 Interface</b>	3-position Phoenix Connector
<b>Flexible I/O 1 &amp; 2</b>	Programmable as digital inputs, outputs, or IR transmitter
<b>Logic Input Mode</b>	ESD-protected inputs w/ internal 10kΩ pull-up resistors, Logic High 2V & Logic Low 0.8V
<b>Digital Output - Positive Drive</b>	Open-collector Darlington's w/ 300mA @ 24V sourced to ground
<b>Digital Output - Open Source</b>	2.7kΩ 1/4W pull-up resistors connected to 24V (9mA)
<b>Digital Output - Serial Output</b>	TX w/ 0-12V or 0-24V modes, configurable to drive IR transmitter
<b>General</b>	
<b>DC Power Supply (optional)</b>	100-240VAC, 47/63 Hz, 0.5A, 15W
<b>Power over Ethernet (PoE)</b>	48VDC @ 350mA, supports PoE, PoE+ & IEEE802.3af standards
<b>DC Power</b>	24V DC, idle current of 60mA, max current of 650mA
<b>Temperature</b>	32 ~ 122°F (0 ~ 50°C)
<b>Humidity</b>	10 ~ 90%
<b>Enclosure Type</b>	Aluminum
<b>Product Dimensions</b>	1" (25.2mm) x 6.9" (175mm) x 3" (7.59mm)
<b>Product Weight</b>	0.36 lbs. (160g)
<b>Compliances</b>	FCC Class B, Canadian ICES-003, CE
<b>MTBF</b>	30,000 hours

Specifications are subject to change without notice